RDM-MBF5-A-4614-O-X-001

■ ELECTRICAL SPECIFICATIONS

GPS ANTENNA

Parameters	Value	Unit
Frequency Range	1575.420 ±3	MHz
Band Width	CF ±4	MHz
Polarization	RHCP	-
Gain (Zenith)	0	dBic
VSWR, max	1.5	-
Impedance	50	Ω

LNA

Parameters	Value	Unit
Gain, typ	20 ±2	dB
Noise Figure, max	1.5	dB
VSWR, max	2.0	-
Supply Voltage	3	VDC
Current Consumption, max	10	mA

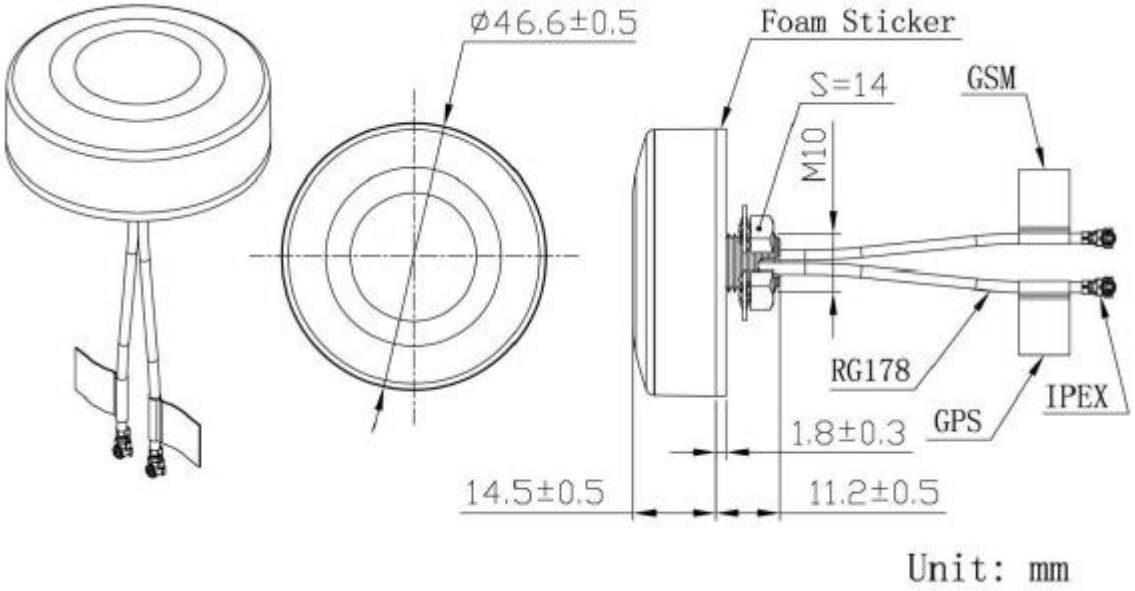
GSM ANTENNA

Parameters	Value		Unit
Frequency Range	824 ~ 960	1710 ~ 2170	MHz
Polarization	Linear		-
Gain (Zenith)	2		dBi
VSWR, max	2.5		-
Impedance	50		Ω

■ MECHANICAL SPECIFICATIONS

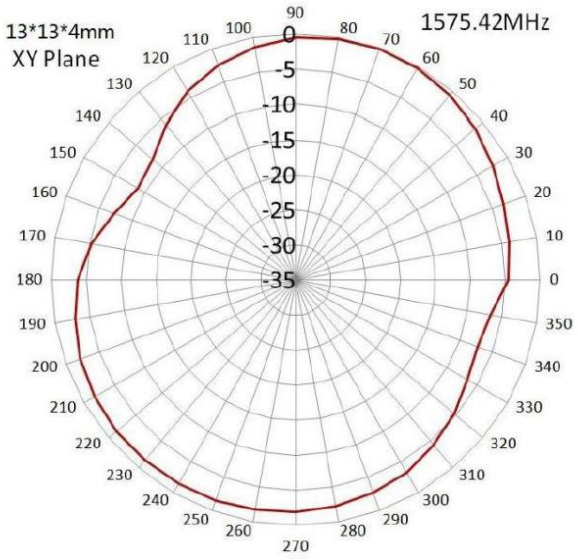
Parameters	Value	Unit
Connector	IPEX	-
Cable	RG178	-
Radome Material	ABS	-
Mounting Method	Screw	-
Operating Temperature Range	-40 ~ +85	˚C
Relative Humidity, max	95	%
Ingress Protection **@ Exclude Cable Outlet**	IP65 ~ IP67	-
Vibration **@ 1.5 mm amplitude 2hours**	10 ~ 55	Hz
ROHS Compliant	YES	-

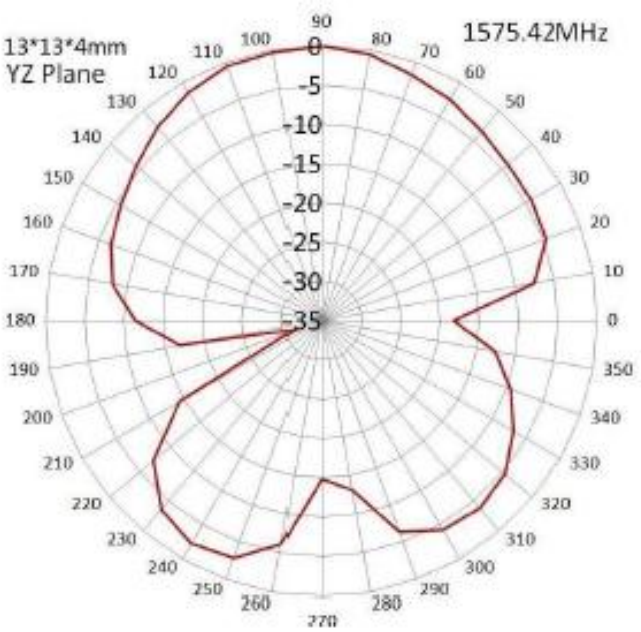
■ DIMENSIONS

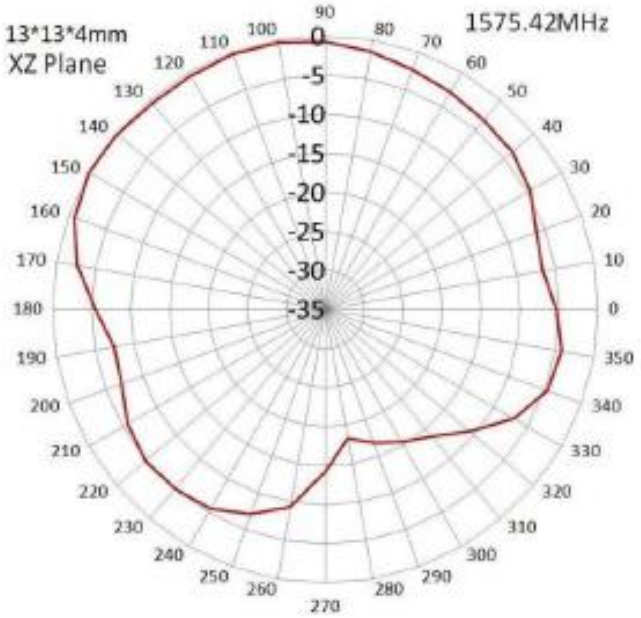


■ RADIATION PATTERN

GPS ANTENNA




13*13*4mm
YZ Plane
1575.42MHz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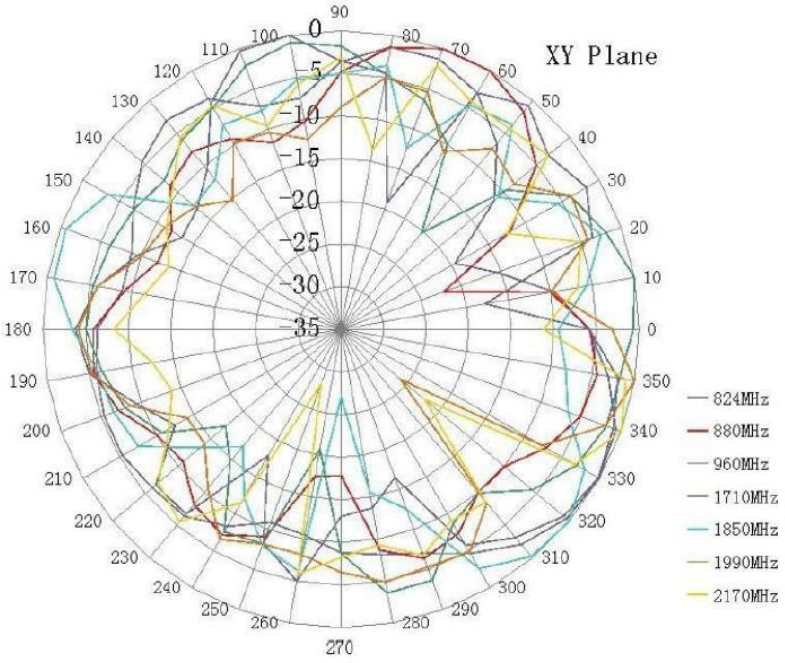
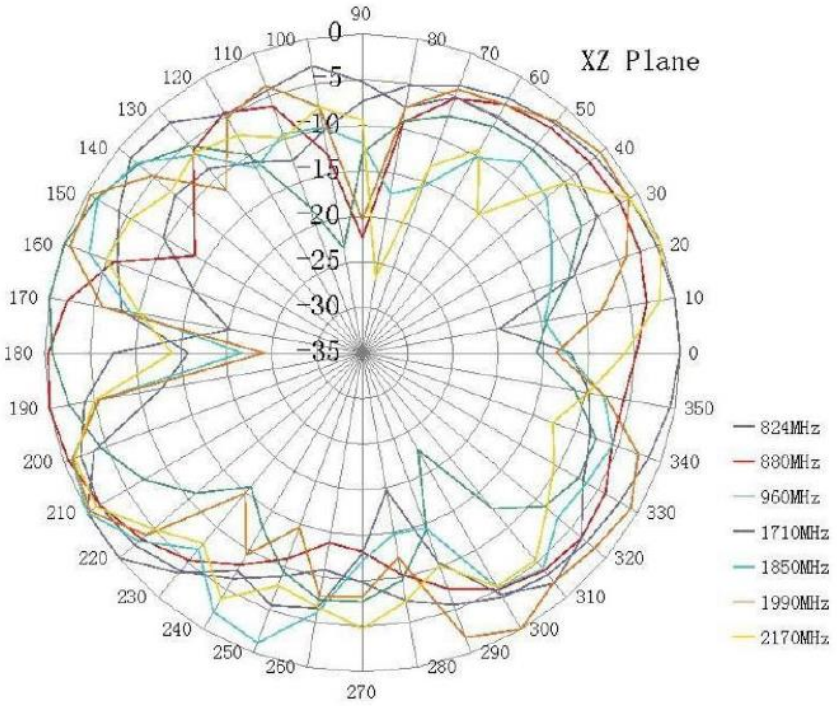
GSM ANTENNA


XY Plane
824MHz
880MHz
960MHz
1710MHz
1850MHz
1990MHz
2170MHz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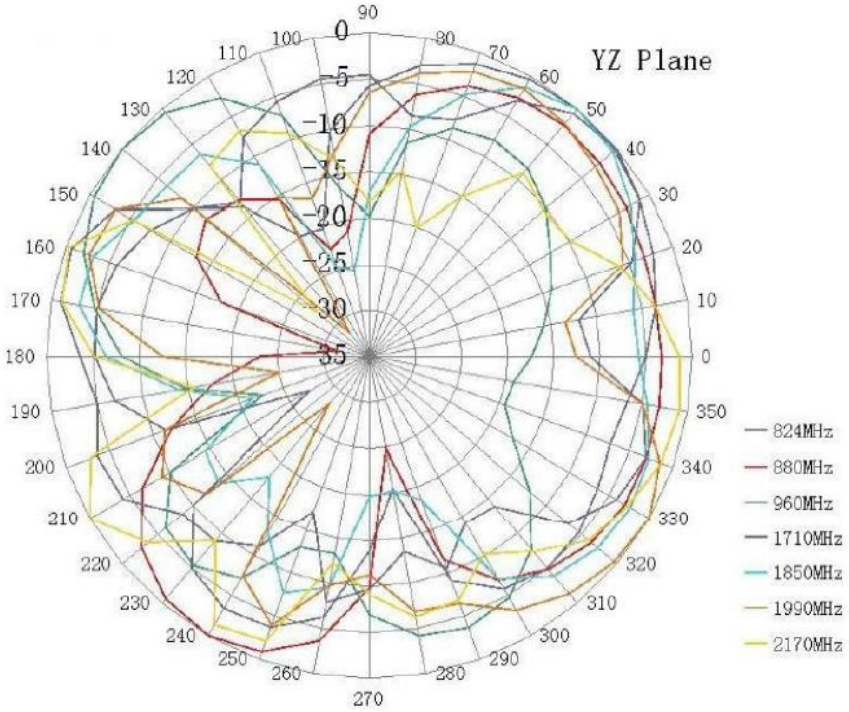
YZ Plane
824MHz
880MHz
960MHz
1710MHz
1850MHz
1990MHz
2170MHz

ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant

APPROVAL

RALTRON	
DRAWN BY:	AR, July 12, 2022
APPROVED BY:	CP, July 12, 2022
REVISION:	A, Initial Release